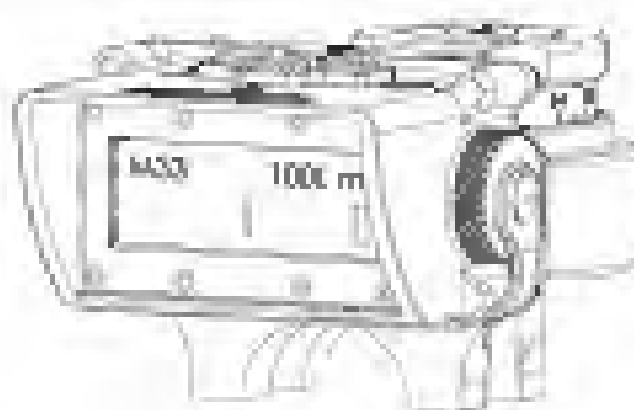




Optical Ranging System (BORS)



Operator's Manual

February 1, 2007

USE OF THIS MANUAL

Before you handle the Barrett Optical Ranging System (BORS), read this manual in its entirety. It is important that you understand the principles of its operation and installation procedures. Important safety topics and equipment care are also addressed. This manual should remain with the BORS and it should be transferred to subsequent owners. Additional manuals can be ordered from Barrett Firearms Manufacturing or can be downloaded from the company web site.

SAFETY GUIDELINES

WARNING

FAILURE TO FOLLOW SAFETY GUIDELINES MAY CAUSE INJURY OR DEATH

WARRANTY AND SERVICE

Barrett Firearms Manufacturing Inc. (BFMI), warrants that this product was manufactured free of defects in materials and workmanship. For one year from the date of purchase by the original owner, BFMI agrees to correct any defect for the original purchaser by repair or replacement with the same or comparable model.

Technical specifications are subject to change without notice.

If you need factory service, whether made under warranty or not, please contact BFMI for instructions on how to have your BORS repaired.

Barrett Firearms Manufacturing Inc.
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Murfreesboro, TN 37133-1077
615-896-2838

www.barrettfiles.com

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About the Operator's Manual

The BORS manual is organized into 4 main sections:

1. Description of the BORS and battery installation

This section explains the functions of the BORS. Battery installation is also explained. The section outlines operating specifications and storage capacity.

2. Installation and mounting

This section describes how to install the BORS unit on M1 Std 1813 rail and its rear rifle telescope.

3. Keypad usage and screen displays

This section describes each button on the keypad does and how to use the information on the display screens. This section also explains how to calibrate the unit, "zero" the BORS and scope with the fire, and use the BORS to determine range.

4. Frequently Asked Questions

This section addresses common issues encountered by first-time users.

Explanation of format and terms used in this manual:

WARNING

A WARNING DESCRIBES AN ACTION THAT MAY RESULT IN SERIOUS INJURY OR DEATH.

CAUTION

A caution describes an action that may result in damage to equipment.

Note

A note is a recommended operating technique.

Text describing a BORS screen display is "CAPITALIZED AND IN QUOTATIONS".

Barrett Optical Ranging System (BORS) Description

BORS is a ballistic computer that mounts directly to the rifle telescope. The BORS is coupled to the telescope's elevation post. Its body serves as the rear upper scope ring cap.

The BORS continuously measures air temperature, barometric pressure, and bore line angle. Given these inputs, it automatically calculates a ballistic solution for a specific user selected cartridge. The user simply adjusts the BORS elevation knob to match the target's known range with the range displayed on the BORS display. This eliminates the need for "counting clicks" as target ranges change, allowing the shooter to focus on other environmental conditions, and quickly engage multiple targets of varying ranges.

The BORS memory is sufficient to hold 100 cartridge tables. Installation can be completed in about the same time as it takes to mount a rifle telescope.

Kit Contents

The BORS kit, Figure 2-1, includes the following:

- One Barrett Optical Ranging System Computer with factory installed cartridge tables.
- One set of Barred black anodized aluminum telescope rings
- One Niium Ion CR-123 battery
- One BORS operator's manual
- One BORS knob adapter with 3 set screws
- One BORS elevation knob with set screw
- One Tool Kit containing the following:
 - Four 8-32 x 1 1/2" T-25 Torx® socket head cap screws
 - One 10-24 x 1/2" flat head cap screw
 - One 3/32" L-shaped Allen Wrench
 - One T-25 L-shaped Torx® Wrench
 - One tube Loctite® 222 low strength adhesive
 - Four extra 10-24 x 1/2" set screws

[Some kits are delivered in a water and air tight case]

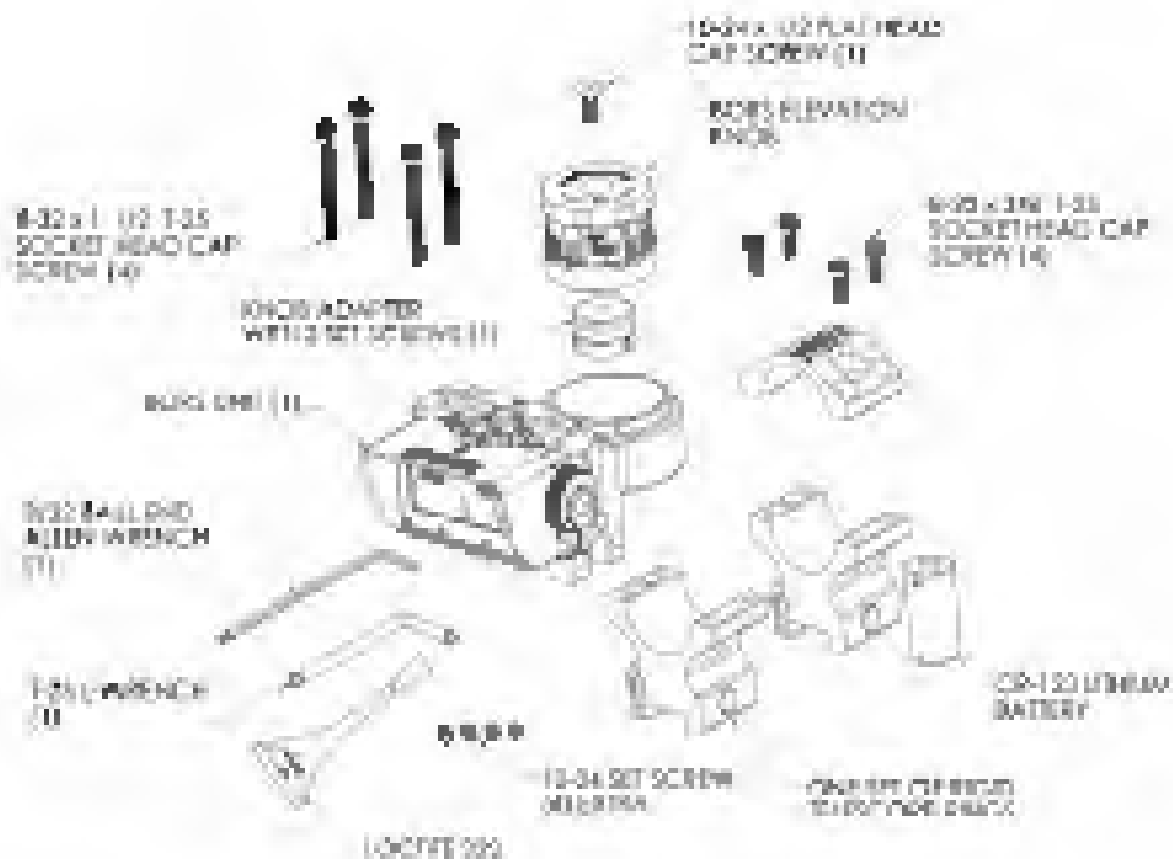


Figure 1-1

BORG Technical Specifications

Operating Temperature Range:	-4°F thru 158°F (-20°C thru 70°C)
Weight:	12 oz. (370 grams)
Display:	12 x 2 character liquid crystal
Buttons:	4 Button Keypad
Operating Altitude Range:	-1,000' thru 20,000' (-300 thru 6,100 meters)
Time Range:	-60° thru 60° (2° Tim Resolution)
Battery:	CR-123 Lithium Ion Battery
Battery Life:	30 hours minimum

WARNING
MAKE CERTAIN THE FIREARM IS UNLOADED. REFER TO YOUR FIREARM'S OWNER'S MANUAL TO ENSURE THE FIREARM IS SAFE.

Installing the battery

One CR-123 lithium cell (3.2 Volt) battery is included with the BCRS kit. This battery is commonly used for cameras and high-intensity flashlights.

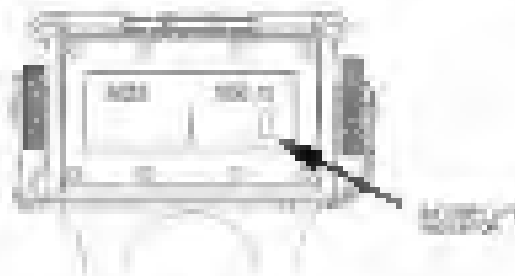


Figure 1-2

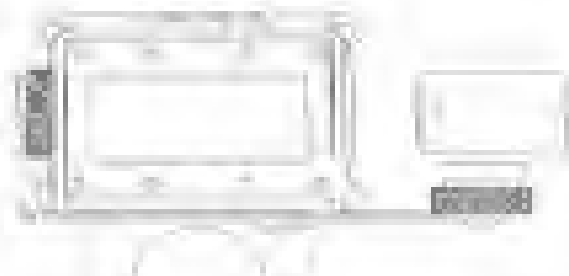


Figure 1-3

Note
CR-123 Lithium batteries are recommended for maximum battery life.

Note
Turn the BCRS power off before removing the battery. This prevents the loss of previous user selected settings.

1. Rotate the battery cap counter-clockwise to remove the cap from the BCRS.
2. Tilt the BCRS to the right side to remove any battery in the case.
3. Insert the battery into the case, positive end first.

Caution
Ensure battery cap threads are seated properly to avoid "cross-threading" the aluminum housing.

4. Reattach the battery cap by rotating the cap clockwise into case threads.

Note
The BCRS Battery Life Indicator displays a full battery icon when fully charged, a half-full icon when battery life drops below half, and an empty battery icon flashed when it is time to replace the battery.

Installing the BORS on a typical rifle telescope

WARNING

MAKE CERTAIN THE FIREARM IS UNLOADED. REFER TO YOUR FIREARM'S OWNER'S MANUAL TO ENSURE THE FIREARM IS SAFE.

Note

Ensure that the ring clamp tightening nuts are on the left side. Orient the ring clamp so that the "slap cut" side of the clamp bears on the ring and the "angle cut" of the clamp bears on the mounting rail. Do not attempt to remove the nut from the bolt. Figure 2-1.

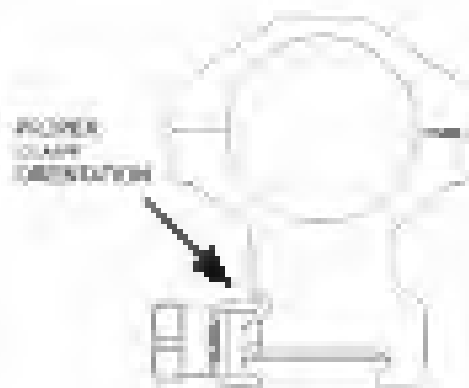


Figure 2-1

1. Place the rear ring (shipped only as a bottom half) on the M1813 optics mounting rail. Attach this ring on the mounting rail in a slot near the rear of the rail. Figure 2-2. (Proper eye relief may be achieved later by moving the entire assembly.)

2. Place the front ring (shipped as an assembled top and bottom) on the M1813 optics mounting rail approximately eight slots forward of the rear ring. From the side view, approximately four complete mounting ridges are visible. Figures 2-2 and 2-3. (Some scope models may require different spacing between rings.)



Figure 2-2

3. Hand-tighten the cross bolt nuts on both rings to ensure a stable work platform.

4. Using the #25 Torx wrench, remove the top cap on the forward ring.



Figure 2-3

5. Place the scope in the bottom half of the rings. Remove the scope's elevation turret cover if the scope is so equipped. Lightly grasp the scope's elevation knob and rotate it until the knob itself is at the highest point in its adjustment travel. Figure 2-4.

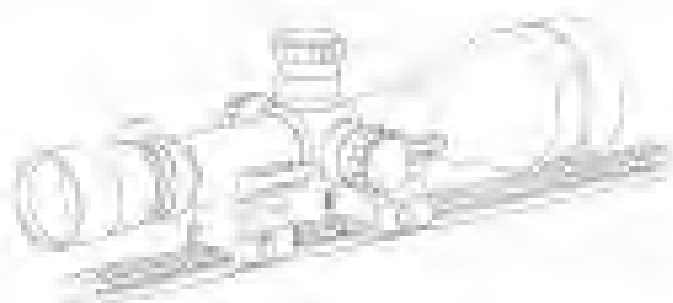


Figure 2-4

Caution
Do not attempt to rotate the rifle scope's elevation knob past its designed mechanical limit.

6. Using the tool provided by the scope manufacturer, remove the arrow(s) attaching the scope's elevation knob to its elevation point. Lift and remove the rifle telescope's elevation knob to expose the elevation point. Figure 2-5.



Figure 2-5

7. Place the BGRS knee adapter over the elevation point. Apply a slight downward pressure and tighten the three equally spaced set screws located on the outside of the adapter. Ensure that all set screws are seated below the outside diameter of the knob adapter and are tightened evenly. Use Loctite® if desired. Figure 2-6.

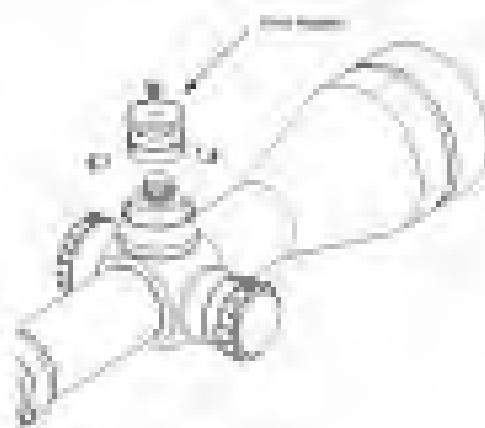


Figure 2-6

8. Place the BQRS unit on top of the rear scope ring, 5/16", but do not tighten. The rear socket head cap screws using the T-25 Torx wrench. Use Loctite® if desired. Figure 2-7

Note
Do not attach the front ring cap until step 13.

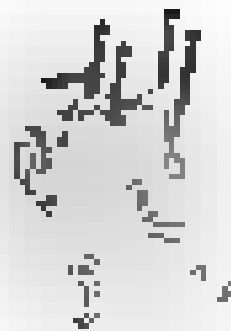


Figure 2-7

9. Place the BQRS elevation knob over the knob adapter. Push the BQRS elevation knob down, seating the knob on the adapter. Ensure the knob rotates without binding. The elevation knob's ring serves to align the scope's reticle and align the BQRS housing on the scope.

10. Insert the flat head hex screw through the top of the BQRS elevation knob engaging the threads in the knob adapter. Exclude the screw will be removed in a later procedure, only "snug" tighten the flat head screw with the T-25 L-shaped Torx wrench. Figure 2-8. After tightening, rotate the BQRS elevation knob to ensure there is no binding during rotation. "Snug" tighten the BQRS knob set screw using the J35 L-shaped Allen wrench. Ensure that the flat screw is seated below the outside chamfer of the elevation knob.

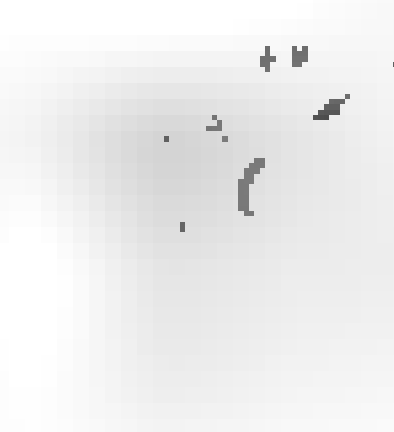


Figure 2-8

Caution
Do not over-tighten the set screw

After having ensured that the elevation knob rotates freely, evenly tighten all four Torx® socket head cap screws in the BOPIS unit. You must follow the adjusted height procedure to ensure the unit is level. The goal is to bring the BOPIS housing straight down onto the mounting base so that the BOPIS elevation knob does not bind. Use the tightening sequence as illustrated in Figure 2-2. Tighten to 35 in/lb or 3.05 Nm.



Tightening Sequence

Figure 2-2

12. Ensure the BOPIS elevation knob rotates freely by turning it until the knob reaches its maximum point. If the elevation knob is binding, loosen the four socket head Torx® screws and repeat step 11.

Caution

Do not attempt to turn the site scope's elevation knob past its designed mechanical limit.

13. Fully tighten two locknut head caps screws on the forward side of the front scope ring. Use lockwashers if desired. Tighten to approximately 25 ft-lbs. The rings are designed to be fully tightened on the unlashed side before tightening the opposite side screws. The "Elmatt" logo on the top ring can be oriented in either direction. Now, tighten the remaining two screw head Torx® screws on the opposite or "gap" side of the scope ring to 35 in-lbs or 3.95 Nm. Use lockwashers if desired. See figure 2-10.




Figure 2-10

14. If eye relief needs to be adjusted, loosen the ring clamp nuts to allow the B&B and scope to be moved as a unit along the rail to the proper eye relief distance. Retighten the ring clamp nuts to 65 in-lbs or 7.34 Nm. Use lockwashers if desired.

Powering the BORS on or off



Figure 3-1

Press and hold the  button as illustrated in Figure 3-1. This will power the BORS on. Press and hold the button for 5 seconds to power off the BORS.

When the BORS powers up, it will display the rifle telescope and the version of BORS computer software. This is the "START-UP SCREEN". It reflects the ballistic tables programmed into the BORS memory chip and is unique to each rifle system type. This screen is displayed for approximately 3 seconds.

The "START-UP SCREEN" Figure 3-2 shows a BORS configured for a BARRETT A307 in .30 Caliber.

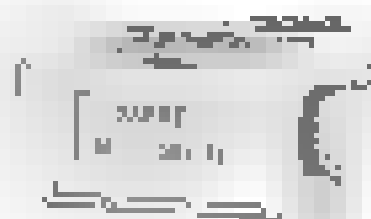


Figure 3-2

Operator's Screen

The screen displayed immediately following the start-up screen is the "OPERATOR'S SCREEN". This screen displays the cartridge type that the BORS computer is using to calculate the bullet drop solution. The "OPERATOR'S SCREEN" is the BORS default screen.

Displayed in the upper left corner of the display is the selected cartridge type.

Displayed in the upper right corner of the display is the numerical range at which the cartridge's bullet drop and the scope's horizontal reticle coincide. This range can be displayed in either yards, expressed as "y", or in meters, expressed as "m". The procedure used to change the measurement basis is described on page 21.

In the lower portion of the "OPERATOR'S SCREEN" is displayed either an "I" if the rifle is level, or a  if the shooter needs to adjust the rifle to achieve level. The reticle sensor is calibrated at the factory.

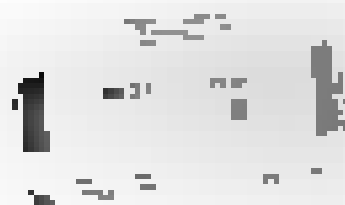


Figure 3-4

Figure 3-4 illustrates the BORS when the firearm is tilted to the left.

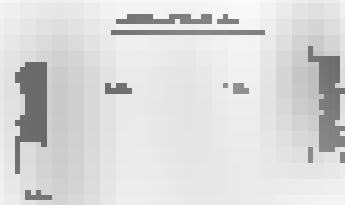


Figure 3-5

Figure 3-5 illustrates the BORS when the firearm is level.

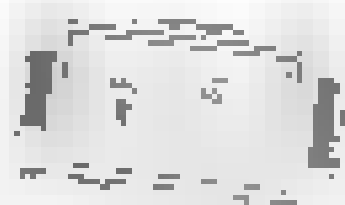


Figure 3-6

Figure 3-6 illustrates the BORS when the firearm is tilted to the right.

The BDRB-pitch sensor, which has no user display, senses the angle of inclination or declination of the rifle's bore line. The BDRS automatically adjusts the ballistic solution to compensate for changes in this angle. The pitch sensor is calibrated at the factory.

NOTE

If the digital read is not working properly, contact Barrett for assistance.

NOTE

The displayed range on the operators screen is only valid if the carriage that is lined to the scope is selected in the BDRS.



Figure 3-7

Figure 3-7 shows a BDRS using a MCR[®] carriage base and scope that has calculated a bullet drop solution that provides bullet impact at 100 meters coincident with the horizontal reticle. The rifle is level.

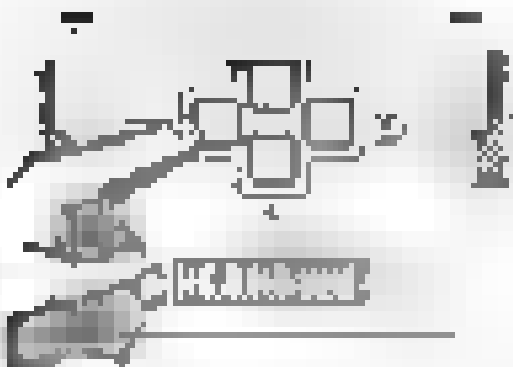






Figure 3-8

From the "OPERATOR'S SCREEN" press the button illustrated in Figure 3-8. This will display the current temperature and barometric pressure.





BORIS Button Functions





The four button keypad is used to access BORIS information and displays. Their function depends on whether the cartridge identification screen is displayed when the button is depressed or another screen is displayed when the button is depressed.

The following commands are active if the OPERATOR'S SCREEN is displayed when a keypad button is depressed:

1.  Power On/Off
2.  Display temperature and barometric pressure.
3.  Power on the LCD back light.
4.  Select display screen menu.

The following commands are active if any screen other than the OPERATOR'S SCREEN is displayed when the keypad button is depressed:

1.  Scroll menu down
2.  Select menu item.
3.  Scroll menu up
4.  Select display screen menu.

Title	Icon	Function
<u>Menu</u>		Used to access BORIS display menus.
<u>Temperature/Select</u>		Displays temperature, barometric pressure, and select menu item.
<u>Light/Scroll Up</u>		Illuminates the display and scrolls the menu up.
<u>Power/Scroll Down</u>		Powers the BORIS on, off, and scrolls the menu down.

Press the **ESC** button as illustrated in Figure 3-9. This will allow access to one of six display screens. The screens are accessed by either scrolling up or scrolling down **↑**. The screens are arranged in the following order: "ZERO CARTRIDGE" "DETERMINE RANGE" "SELECT CARTRIDGE" "CARTRIDGE INFORMATION" "CHANGE UNITS" and "CHANGE SETTINGS". If **ESC** is pressed again the BORS computer will end the current session and return to its previous display.

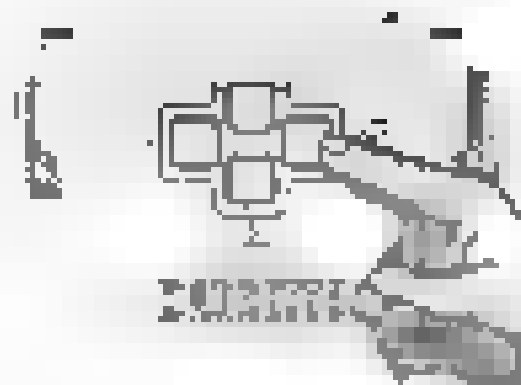


Figure 4-1

SELECT CARTRIDGE









- 1 Press and release the  button
- 2 Press and release the  button until the display reads: SELECT CARTRIDGE
- 3 Press and release the  button to select the menu item. The currently selected cartridge will be displayed as indicated in Figure 3- 6. The cartridge description is displayed under the cartridge name. Depending on the length of the description, the words may scroll across the screen.
- 4 Using the arrow buttons  or , scroll to the desired cartridge. Press and release the  button when the desired cartridge is displayed.



Figure 3- 6

The screen will display "CONFIRM CARTRIDGE" as previously illustrated.

Press and release the  button to confirm or the  button to cancel. The selected cartridge will be displayed on the "OPERATOR'S SCREEN" after confirmation.

CHANGE UNITS

Changing Units of Measurement Base

BORS displays units of measurement on all screens based on either Metric or U.S. equivalents. To change from the currently displayed mode to the other base:

1. Press the  button
2. Press the $\frac{\square}{\square}$ button until the display reads "CHANGE UNITS"
3. Press the  button to change the base from the current to the other base

Note

The user can confirm changing measurement base by entering the range units displayed on the OPERATING SCREEN as either "Y" or "M".

Displayed Metric and U.S. Equivalents

Unit	Range	Time parameter	Up stream to PUMP IN	Up stream PUMP	Quality INLET	Quality PUMP	Up stream OUT
U.S.	Yards	Centimeters	Inches at 1 second	Feet per second	Inches	Gains	Feet
Metric	Meters	Centim	Centimeters	Meters per second	Meters cent	Gains	Meters

Figure 3-

CHANGE SETTINGS








Note

Calibrating the BORS to your rifle telescope is necessary any time power is lost to the BORS unit.







Caution

Do not attempt to turn the rifle scope's elevation knob past its designed mechanical limit.






Calibrating the BORS to your rifle telescope

1. Rotate the BORS elevation knob clockwise until it reaches its lowest point.
2. Press the  button to enter the menu screen.
3. Press the  button until the screen displays "CHANGE SETTINGS".
4. Press the  button. The screen will display "ADJUST BACKLIGHT".
5. Press the  button once. The screen will display "DEVICE SETUP". Press the  button to select this screen.
6. Press the  button to display "ZERO ELEVATION".
7. Press the  button to confirm the selection. The BORS is now calibrated to your rifle telescope.

Adjusting the Backlight

1. Press the  button to enter the menu screen.
2. Press the  button until the screen displays "CHANGE SETTINGS". Press the  button to select this screen.
3. The screen displays "ADJUST BACKLIGHT". Press the  button to select this screen.
4. The screen displays "BACKLIGHT SCROLL UP/DN". See Figure 3-12.
5. Press the  or the  button to adjust the display brightness.

Checking the version of BORS

1. Press the  button to enter the menu screen.
2. Press the  button until the screen displays "CHANGE SETTINGS".
3. Press the  button. The screen will display "ADJUST BACKLIGHT".
4. Press the  button twice to display "VERSION INFORMATION".
5. Press the  button to display currently loaded hardware and firmware versions.

Adjusting the Contrast








1. Press the  button to enter the menu screen
2. Press the  button until the screen displays "CHANGE SETTINGS". Press the  button.
3. The screen will display "ADJUST BACKLIGHT".
4. Press the  button. The screen will display "ADJUST CONTRAST". Press the  button to select this screen.
5. The screen displays "CONTRAST SCROLL UP/DN". See Figure 3-18.
6. Press the  or the  button to adjust the display contrast.



Figure 3-18

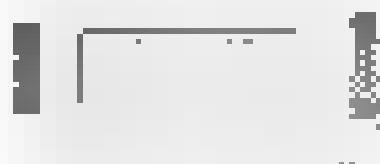


















Figure 3-19

Adjusting the Backlight timer (The length of time the backlight will illuminate)

1. Press the  button to enter the menu screen
2. Press the  button until the screen displays "CHANGE SETTINGS". Press the  button.
3. Press the  button. The screen will display "ADJUST BACKLIGHT".
4. Press the  button. This will display "DEVICE SET UP".
5. Select the display by pressing the  button. "ZERO ELEVATION" will be displayed.
6. Now, press the  button to display "BACKLIGHT TIMER".
7. Press the  button to select the screen.
8. Use the  or the  button to adjust the time the backlight remains illuminated.

CARTRIDGE INFORMATION

1. Press and release the  button to enter the menu screen.
2. Press the  or the  button until the screen displays "CARTRIDGE INFORMATION".
3. Press and release the  button. "DESCRIPTION" is shown on the top line of the display. Below "DESCRIPTION" will be displayed a user-defined summary of the cartridge. Depending on the length of the description, the words may scroll across the screen.
4. Pressing the  or the  button will display the "CALIBER", "BULLET WEIGHT", "BULLET B.C." or "MUZZLE VELOCITY" of the cartridge selected.

ZERO CARTRIDGE

Point of Impact zeroing procedure for the BDRS in the fire line range

The zeroing procedure for the BDRS is similar to zeroing any common rifle telescope. The default distance for zeroing the cartridge point of impact is 100 meters or 110 yards. The following steps zero the BDRS with a specific cartridge, rifle, and rifle telescope.

Step 1

Select the desired cartridge on the BDRS "SELECT CARTRIDGE" screen. Fire a series of shots to obtain a representative group of point of impact with this cartridge type.

Step 2

Adjust the BDRS elevation knob until the projectile's point of impact coincides with the rifle telescope's horizontal reticle. If desired, adjust the rifle scope's left/right knob until the projectile's point of impact coincides with the rifle telescope's vertical reticle. The BDRS has no influence on windage adjustments.

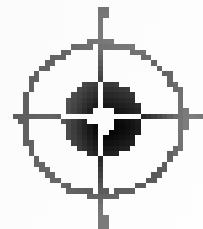


Figure 3-14

Step-3

Loosen the set screw and the flat head screw on the BORS elevation knob. Figure 3- 5 The elevation knob will now rotate freely on the BORS knob adapter but will not move the reticle. Rotate the BORS elevation knob until its "T" mark/index line is coincident with either index mark located on the outside of the BORS housing. It is user preference whether the left or right side housing index line is used. Hold the BORS elevation knob in position and tighten the set screw first and then tighten the flat head screw second. You may now set the carriage and the telescopes ready to use.



Figure 3-4

NOTE

Do not move the BORS knob when the BORS is powered on. If the BORS knob is moved while the unit is powered on, first return the BORS elevation knob to its reference-zero position, then restore power to the BORS to accomplish "Calibrating the BORS in your rifle telescope" on page 21.

Step-4

To initialize the BORS to a selected cartridge, press the **0** button. Press the button until the screen displays "ZERO CARTRIDGE". Press the **0** button to select the screen.



Figure 3-10

The screen will now display

<CONFIRM CANCEL>. Press the button to confirm. Press the **0** button to return to the "OPERATOR'S SCREEN". After confirming, the displayed distance will indicate 100 m or 10 y depending on the measurement mode.

DETERMINE RANGE

Determining the Range to the Target with the BURS






BURS provides the user with the ability to measure and then display the range to a reference object or target. This distance can be displayed in either yards or meters. The known vertical dimension of the reference object is used to calculate the distance to that object.


Note

Range measurements will be most accurate when the rifle is fired directly at a large reference object & selected.

Figure 1-17 shows the reference object as a vehicle known to be approximately 6 feet tall. The user selects 6 FEET as the height of the reference object. Using the BURS data interface to obtain the elevation angle using the height of the vehicle, the DOTS is able to calculate the distance to the vehicle.

Range Finding Procedure

1. Press the  button to enter the Home screen.
2. Press the  button until the screen displays DETERMINE RANGE.
3. Press the  button to select the target.
4. The screen will display TARGET SECT on the top line. The bottom line will display either 1 FEET or 1 METER depending on selected measurement type.
5. By pressing the  or the  button the user can scroll to display the appropriate height of a reference object. If 5 measurements have been selected, 1 FT, 3 FEET, 6 FEET, 7 FEET, 7.5 FEET, 15 FEET and 20 FEET will be displayed. If metric units have been selected, 1 meter, 1 MET, 2 METERS, 3 METERS, 4 METERS, 5 METERS and 7.5 METERS will be displayed.

1. From a steady rest, position the horizontal crosshairs at the top or bottom of the reference object. Press the  button to select the height of the reference object. "MEASURE TRGT USING ELEV" will be displayed.

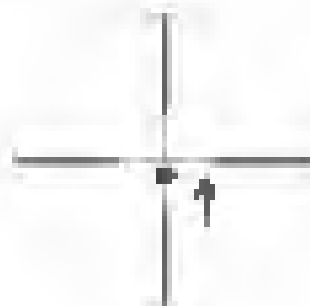


Figure 3-17

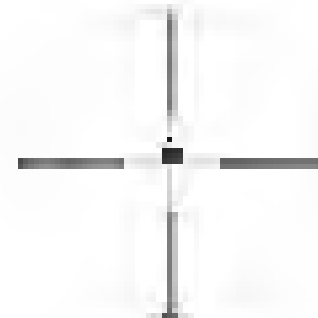


Figure 3-18

2. Using the BORS elevation knob, move the horizontal crosshair either from the top of the reference object to its bottom, or from the bottom of the object to its top as illustrated in Figure 3-18.

NOTE

The measurement will be most accurate when the rifle is kept steady throughout the procedure.



3. Press the  button to display the range to the reference object. The distance to the reference object will be displayed as "TARGET RANGE 1012 YARDS" as illustrated in Figure 3-19.



Figure 3-19

4. Press the  button to return to the "OPERATOR'S SCREEN". Use the BORS elevation knob to dial the reference object's range. Your reticope elevation crosshairs are now adjusted so that your point of aim is the point of impact at the reference object's calculated range.

Frequently Asked Questions

Why are my bullets striking consistently higher or lower than my point of aim?

Make sure the cartridge being used is the same one as displayed on the "OPERATOR'S SCREEN". If correct, reaccomplish the procedures on page 22, "calibrating the BORS". If the problem persists, reaccomplish the procedure on page 26, point of impact zeroing procedure for the BORS.

The BORS loses power, the battery fails, the display screen is unusable or the BORS unit fails. What should I do?

The BORS is designed so that your rifle telescope is fully functional even in the event of battery or BORS unit failure. If time permits, remove and replace the battery, then follow the instructions on page 22, "calibrating the BORS". This will restore previous settings. If time does not permit, the user may visually reference an index mark and elevation graduations on the BORS knob to obtain the rifle telescope's internal elevation setting.

Why does the display range fluctuate?

The BORS sensors are reacting to constantly changing environmental conditions. These changes are continuously updated and displayed as small changes in range.

Why does the display not change after an audible scope click?

It is possible for the display to not change after a click. The BORS reacts for BORS elevation knob graduations, not internal scope clicks. The user can synchronize the clicks with the graduations by adjusting the index marker as illustrated Figure 3-15 on page 27.

What if the BORS knob is moved when the BORS is not powered?

Moving the BORS elevation knob while the BORS is not powered requires the user to recalibrate the BORS. To recalibrate the BORS, first return the BORS elevation knob to reference zero, then restore power to the BORS. Now accomplish "calibrating the BORS" on page 22.

Can I set the BORS for multiple cartridges?

Yes, the BORS can hold as many as 100 individual ballistic tables.

